

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 02-298280

(43)Date of publication of application : 10.12.1990

(51)Int.Cl.

C23F 1/00  
B24B 27/06

(21)Application number : 01-118123

(71)Applicant : SEIKO EPSON CORP

(22)Date of filing : 11.05.1989

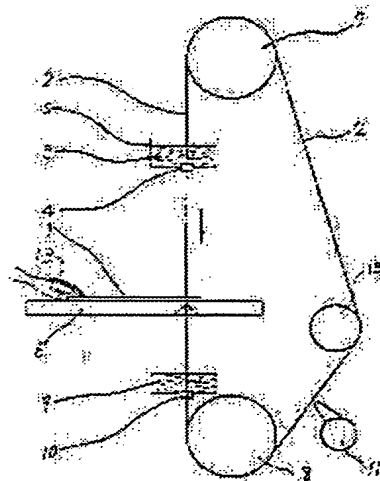
(72)Inventor : OKAMURA MASAO

## (54) WIRE ETCHING METHOD

### (57)Abstract:

**PURPOSE:** To conveniently, easily and precisely work a material into a smooth finished surface free of burrs by pressing the material on the side surface of a wire coated with a liq. etchant and traveling in its longitudinal direction and instantaneously heating the material with the frictional heat.

**CONSTITUTION:** The wire 2 of pure titanium, etc., is traveled in direction of the arrow at a specified tension by the upper and lower wheels 7 and 8 and idler 13 and passed through the hole of a table 6. The wire 2 is further passed through a vessel 5 contg. a liq. etchant 3, and the whole periphery is uniformly coated by a coating member 4. The member 1 to be worked is pressed on the side surface of the wire 2 and instantaneously heated by the frictional heat. The contact part between the material 1 and the wire 2 is eluted by the heated etchant 3, and the etchant is washed off by cleaning water 9. The wire 2 is then dried by a hot-air drier 11. The material 1 is worked by this simple device and excellently finished.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other

than the examiner's decision of rejection or  
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's  
decision of rejection]

[Date of requesting appeal against  
examiner's decision of rejection]

[Date of extinction of right]